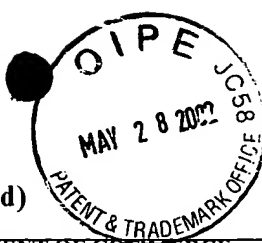


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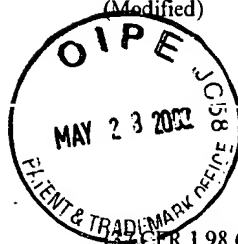
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SHEET 1 of 4

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
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SERIAL NO.

09/941,471

APPLICANT(S)

Gang Liu, et al

FILING DATE

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1614/625

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
W ↓	A1	3,987,192	10/19/76	Wright	424	304	
	A2	4,230,484	10/28/80	Batch et al	71	111	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION
							YES NO
W ↓	B1	01/19831	22.03.2001	PCT			
	B2	01/19830	22.03.2001	PCT			
	B3	01/17516	15.03.2001	PCT			
	B4	99/46236	16.09.1999	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

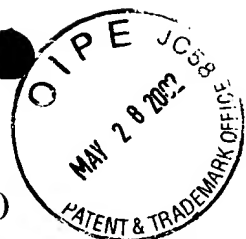
W ↓	C1	Tony Hunter, "The phosphorylation of proteins on tyrosine: its role in cell growth and disease", Phil. Trans. R. Soc. Lond. B (1998) 353: 583-605
	C2	Chan et al, "The Role of Protein Tyrosine Kinases and Protein Tyrosine Phosphatases in T Cell Antigen Receptor Signal Transduction", Annu. Rev. Immunol. (1994) 12: 555-592
	C3	Zhong-Yin Zhang, "Structure, Mechanism, and Specificity of Protein-Tyrosine Phosphatases", Current Topics In Cellular Regulation (1997) 35:21-68
	C4	Matozaki et al, "Roles of Protein-Tyrosine Phosphatases in Growth Factor Signalling", Cell. Signal (1996) Vol. 8, No. 1: 113-119
	C5	Barry J. Goldstein, "Regulation of Insulin Receptor Signaling by Protein-Tyrosine Dephosphorylation", Receptor (1993) 3:1-15
	C6	Faure et al, "The Dephosphorylation of Insulin and Epidermal Growth Factor Receptors", Journal of Biol. Chemistry (1992) 267:11215-11221
	C7	Seely et al, "Protein Tyrosine Phosphatase 1B Interacts with the Activated Insulin Receptor", Diabetes (1996) 45: 1379-1385

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

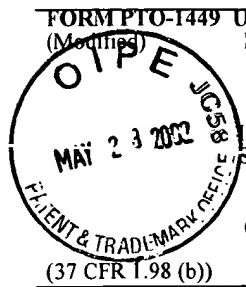
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SHEET 2 of 4

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U.S.PATENT DOCUMENTS

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DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C8	Ahmad et al, "Osmotic Loading of Neutralizing Antibodies Demonstrates a Role for Protein-Tyrosine Phosphatase 1B in Negative Regulation of the Insulin Action Pathway", J. Biol. Chem. (1995) 270:20503-20508
C9	Elchebly et al, "Increased Insulin Sensitivity and Obesity Resistance in Mice Lacking the Protein Tyrosine Phosphatase-1B Gene", Science (1999) 283: 1544-1548
C10	Klaman et al, "Increased Energy Expenditure, Decreased Adiposity and Tissue-Specific Insulin Sensitivity in Protein-Tyrosine Phosphatase 1B-Deficient Mice", Molecular and Cellular Biology (2000) 20: 5479-5489
C11	Hunter et al, "Protein-Tyrosine Kinases", Ann. Rev. Biochem (1985) 54:897-930
C12	Wiener et al, "Overexpression of the Protein Tyrosine Phosphatase PTP1B in Human Breast Cancer: Association with p185c-erbB-2 Protein Expression", J. Natl. Cancer Inst. (1994) 86: 372-378
C13	Noguchi et al, "Role of SH-PTP2, a Protein-Tyrosine Phosphatase with Src Homology 2 Domains, in Insulin-Stimulated Ras Activation", Molecular Cellular Biology (1994) 14:6674-6682
C14	Flint et al, "Multi-site phosphorylation of the protein tyrosine phosphatase, PTP1B: identification of cell cycle regulated and phorbol ester stimulated sites of phosphorylation", The EMBO Journal (1993) 12: 1937-1946
C15	Mauko et al, "Identification of a Hormonally Regulated Protein Tyrosine Phosphatase Associated with Bone and Testicular Differentiation", Journal of Biological Chemistry (1994) 269: 30659-30667
C16	Wang et al, "Mechanism of Inhibition of Protein-Tyrosine Phosphatases by Disodium Aurothiomalate", Biochemical Pharmacology (1997) 54:703-711
C17	Mauro et al, "Zip Codes" direct intracellular protein tyrosine phosphatases to the correct cellular 'address', TIBS (1994) 19: 151-155
C18	Tonks et al, "Purification of the Major Protein-tyrosine-phosphatases of Human Placenta", J. Biol. Chem. (1998) 263: 6722-6730

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SHEET 3 of 4

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DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C19	Cool et al, "cDNA isolated from a human T-cell library encodes a member of the protein-tyrosine-phosphatase family", Proc. Natl. Acad. Sci. USA (1989) 86: 5257-5261
C20	Lombroso et al, "Molecular characterization of a protein-tyrosine-phosphatase enriched striatum", Proc. Natl. Acad. Sci. USA (1991) 88: 7242-7246
C21	Plutzky et al, "Isolation of a src homology 2-containing tyrosine phosphatase", Proc. Natl. Acad. Sci. USA (1992) 89: 1123-1127
C22	Vogel et al, "Activation of a Phosphotyrosine Phosphatase by Tyrosine Phosphorylation", Science (1993) 259: 1611-1614
C23	Feng et al, "SH2-Containing Phosphotyrosine Phosphatases as a target of Protein-Tyrosine Kinases", Science (1993) 259: 1607-1611
C24	Ralph et al, "Structural Variants of Human T200 glycoprotein (leukocyte-common antigen)" The EMBO Journal (1987) 6: 1251-1257
C25	Streuli et al, "A New Member of the Immunoglobulin Super Family that has a Cytoplasmic Region Homologous to the Leukocyte Common Antigen", J. Exp. Med. (1988) 168(5): 1523-1530
C26	Krueger et al, "Structural Diversity and Evolution of Human Receptor-Like Protein Tyrosine Phosphatases", The EMBO Journal (1990) 9: 3241-3252
C27	Beaulieu et al, "Ligands for the tyrosine kinase p56lck SH2 domain: Discovery of potent dipeptide derivatives with monocharged, nonhydrolyzable phosphate replacements" J. Med. Chem. (1999) 42: 1757-1766
C28	Andersen et al, "2-(Oxalylamino)-benzoic acid is a general, competitive inhibitor of protein-tyrosine phosphatases" J. Biol. Chem. (2000) 275: 7101-7108
C29	Iversen et al, "Structure-based design of a low molecular weight nonphosphorus, nonpeptide, and highly selective inhibitor of protein-tyrosine phosphatase 1B", J. Biol. Chem. (2000) 275: 10300-10307

EXAMINER

DATE CONSIDERED

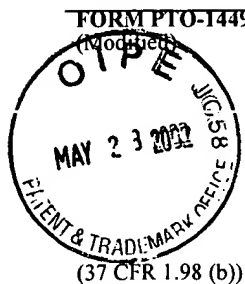
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SHEET 4 of 4

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE
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DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C30	Abstract XP002195161. Podesva, C et al: Canadian Journal of Chemistry (1968) 46: 435-439
C31	Abstract XP002195162. Peet, Norton P. et al: Journal of Heterocyclic Chemistry (1980) 17: 1513-1518
C32	Abstract XP002195163. Lee, Sang-Gi et al: Synthetic Communications (1996) 26: 4623-4632
C33	Abstract XP002195164. Ye, Jia-Hai et al: Tetrahedron Letters (1999) 40: 1365-1368
C34	Abstract XP002195165. Wakita, Yoshiaki: Journal of Organometallic Chemistry (1985) 297: 379-390
C35	Abstract XP002195166. Cannizzo, Sergio et al: Journal of Heterocyclic Chemistry (1990) 27: 2175-2179
C36	Abstract XP002195167. Bergman, Jan: Tetrahedron (1986) 42: 3689-3696
C37	Abstract XP002195168. Loev, Bernard: Journal of Medicinal Chemistry (1985) 28: 363-366

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

EXAMINE R INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE
<i>W</i>	A1	4 0 9 1 0 1 1	05.23.78	Wright			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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							YES NO
<i>W</i>	B1	1 5 1 7 8 9 6	22.03.68	FR			
	B2	9 9 4 6 2 3 7	16.09.99	WO			
	B3	0 2 1 8 3 2 3	07.03.2002	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

<i>W</i>	C1	Iversen, L.R., et al., "Structure-based Design of a Low Molecular Weight, Nonphosphorus, Nonpeptide, and Highly Selective Inhibitor of Protein-tyrosine Phosphatase 1B", <i>Journ. Of Biol. Chem.</i> , 275(14) :10300-10307 (2000)
	C2	Peters, G. H., et al., "Residue 259 Is a Key Determinant of Substrate Specificity of Protein-tyrosine Phosphatases 1B and α^* ", <i>Journ. Of Biol. Chem.</i> , 275(24) :18201-18209 (2000)

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DATE CONSIDERED

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